abcam

ab240257

Anti-HAPLN1 antibody [EPR6338] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR6338
Purification technique	Affinity purification Protein A
Concentration	1.006 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information HAPLN1

Function	Stabilizes the aggregates of proteoglycan monomers with hyaluronic acid in the extracellular cartilage matrix.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab240257 is the carrier-free version of ab181997.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes,

oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	HAPLN1 also known as hyaluronan and proteoglycan link protein 1 is an important structural component in the extracellular matrix. This protein links hyaluronan to proteoglycans which contributes to the integrity and function of the matrix. HAPLN1 has a molecular mass of approximately 39 kDa and is expressed in various tissues including cartilage and nervous tissues. Its expression plays a significant role in maintaining the properties of these tissues.
Biological function summary	Hyaluronan and proteoglycan link protein 1 supports the organization and stabilization of the extracellular matrix network. As part of this framework HAPLN1 forms complexes with hyaluronan and aggrecan ensuring structural stability and resilience in tissues experiencing mechanical stress. The association with such complexes impacts cellular signaling and tissue hydration which are important for maintaining tissue homeostasis and function.
Pathways	HAPLN1 participates in extracellular matrix organization and cell signaling processes. It is actively involved in the aggrecan pathway which influences cartilage development and repair. HAPLN1 is also connected to proteins like aggrecan and link proteins that help mediate interactions within the matrix and regulate cellular responses to mechanical stress.
Associated diseases and disorders	Abnormal expression or function of HAPLN1 has links to osteoarthritis and intervertebral disc degeneration. In these conditions the disruption of extracellular matrix composition alters tissue integrity and function. An imbalance involving HAPLN1 along with proteins like aggrecan contributes to the pathogenesis and progression of these disorders affecting joint and disc health.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

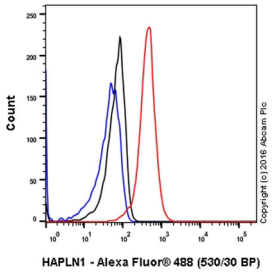
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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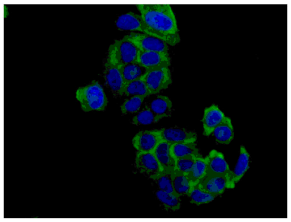
3 product images



Flow Cytometry (Intracellular) - Anti-HAPLN1 antibody [EPR6338] - BSA and Azide free (ab240257)

HAPLN1 Flow Cytometry (Intracellular) staining using rabbit Anti-HAPLN1 antibody

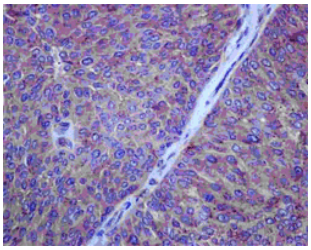
Intracellular Flow Cytometry analysis of MCF-7 (human breast carcinoma) cells labeling HAPLN1 with purified ab181997 at 1/2000 dilution (red). The secondary antibody was Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution. A Rabbit monoclonal IgG (Black) was used as the isotype control and cells without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181997).



Immunocytochemistry/ Immunofluorescence - Anti-HAPLN1 antibody [EPR6338] - BSA and Azide free (ab240257)

HAPLN1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-HAPLN1 antibody

Immunofluorescent analysis of MCF7 cells (paraformaldehyde-fixed, 4%) labeling HAPLN1 with ab181997 at 1/250 dilution, followed by Goat anti rabbit IgG(Dylight 488) at 1/200 dilution and counter-stained with DAPI (blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181997).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HAPLN1 antibody [EPR6338] - BSA and Azide free (ab240257)

HAPLN1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-HAPLN1 antibody

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling HAPLN1 with ab181997 at 1/50 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab181997).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.